

1/3 - (C) WPI / DERWENT

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AP - RD20000440021 20001120

PR - RD20000440021 20001120

TI - Accessing local multi-function devices from a web browser

IW - ACCESS LOCAL MULTI FUNCTION DEVICE WEB

PA - (ANON ) ANONYMOUS

PN - RD440021 A 20001210 DW200156 G06F0/00 001pp

IC - G06F0/00

AB - RD440021 NOVELTY - Multi-Function Devices, which can include printer, scanner, fax and copier functionality, typically require a significant amount of user interface software to be fully functional. Web browsers offer a way to simplify this software if a method existed to access alocally connected device.

- DETAILED DESCRIPTION - One method to achieve the necessary software connection is described below. Hewlett-Packard Co. has developed

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a collection of software libraries that connects applications to devices independent of the actual connection method. This method is simply a connection between the browser Java Virtual Machine (JVM) and these libraries. Using a Java Native Interface (JNI) module, the connectivity libraries can be accessible to browser applications. These applications can be implemented as JAVA applets, add-ins, etc. This functionality makes the locally connected device available to local web page applications and even to remote devices via technologies such as Active Server Pages (ASP), which are web server based applications. Two scenarios are shown in the following diagrams.

- USE - Accessing local multi-function devices from a web browser.

- (Dwg.1/1)